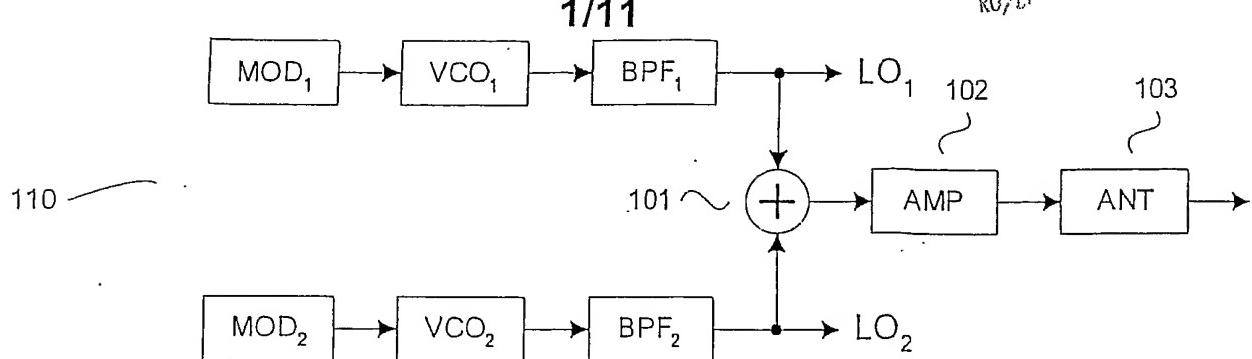
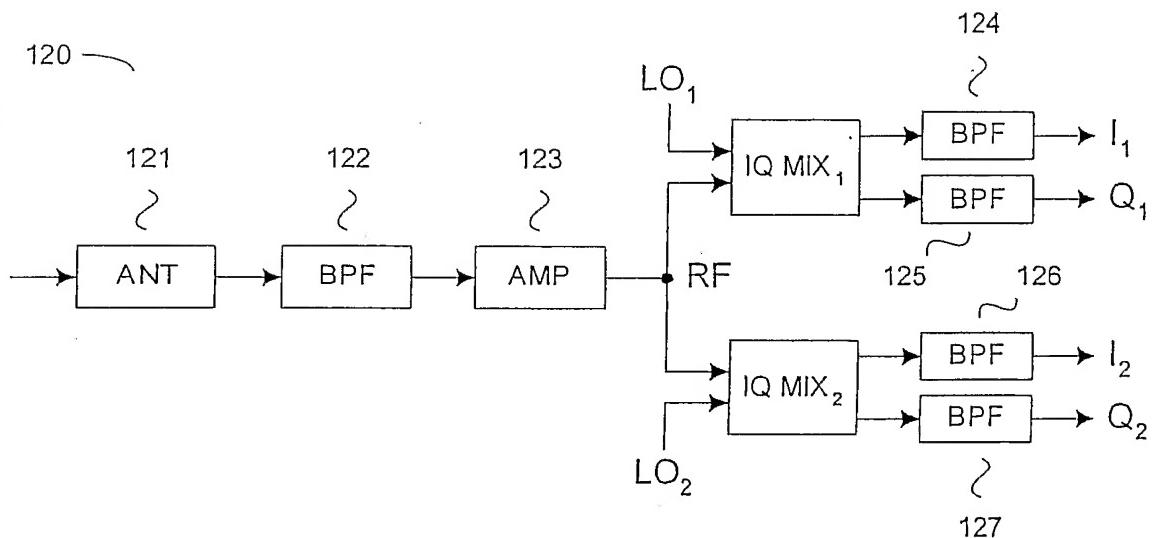
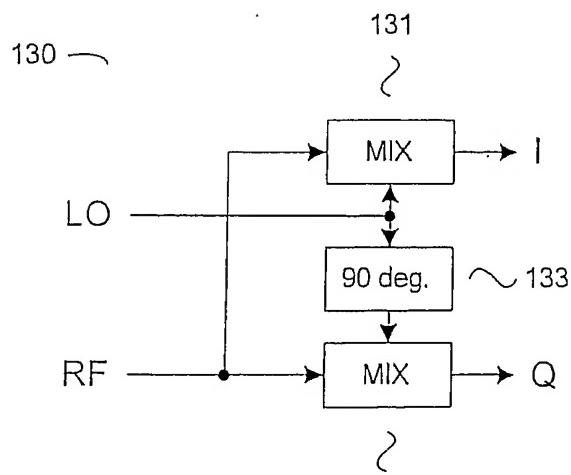


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Fig. 1a TransmitterFig. 1b Receiver (one channel)Fig. 1c IQ Mixer

Relative Location of Receive
Antenna Channels
(as seen from behind the antenna)

1	2
3	4

Figure 2

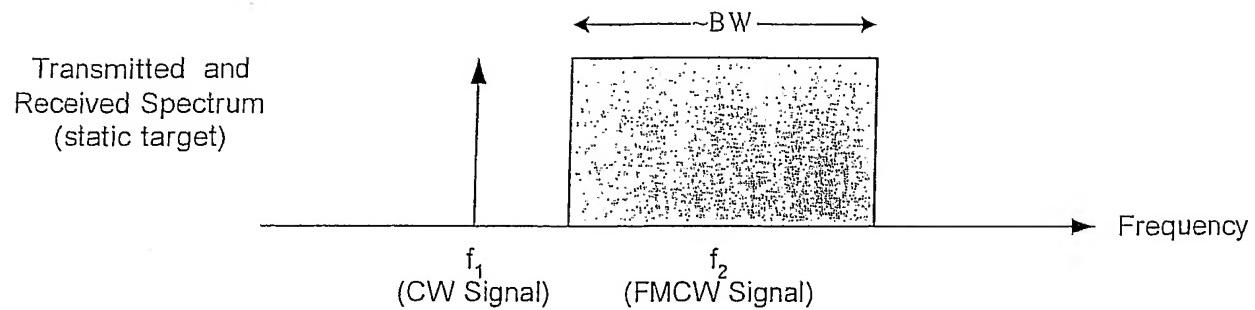


Figure 3a

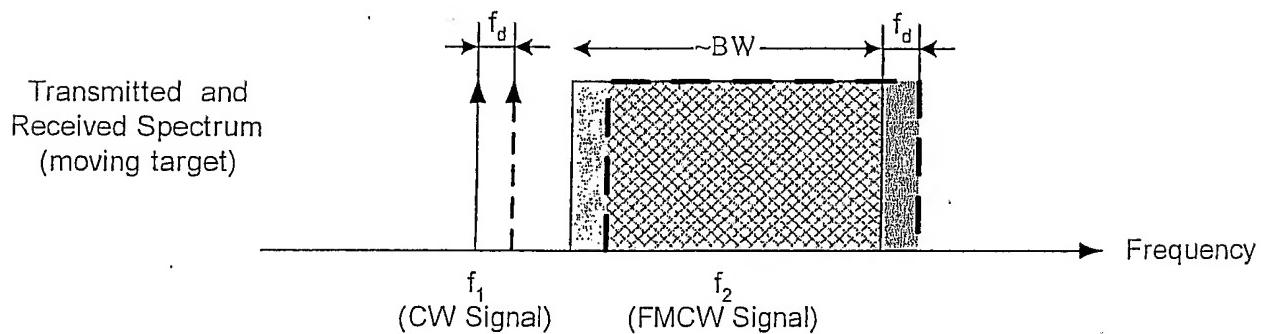


Figure 3b

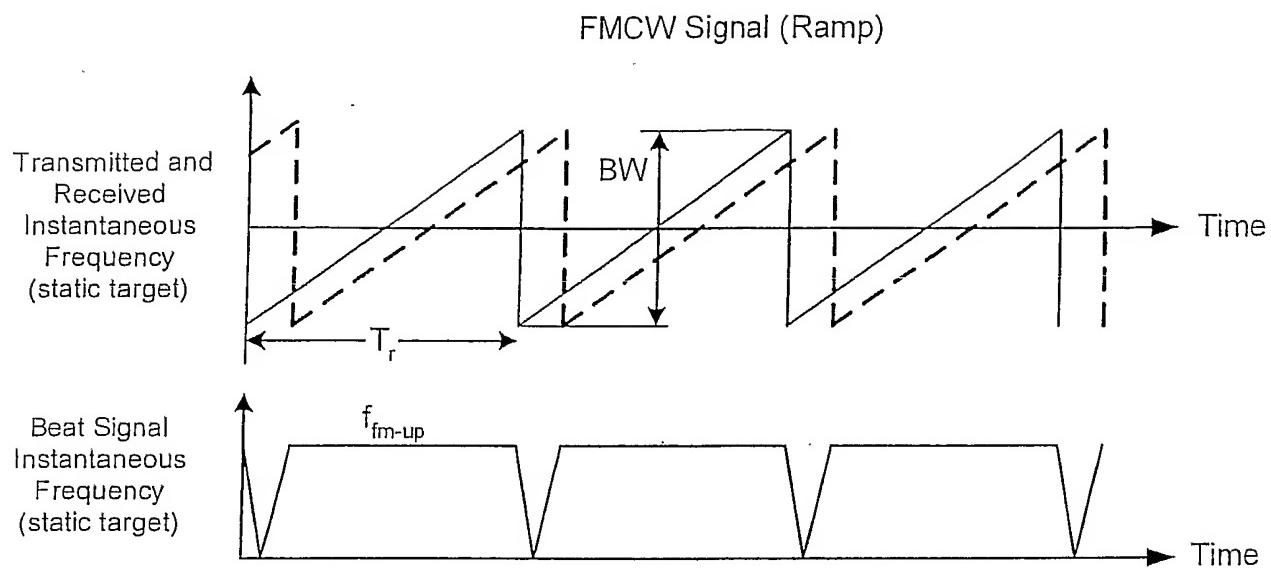


Figure 4a

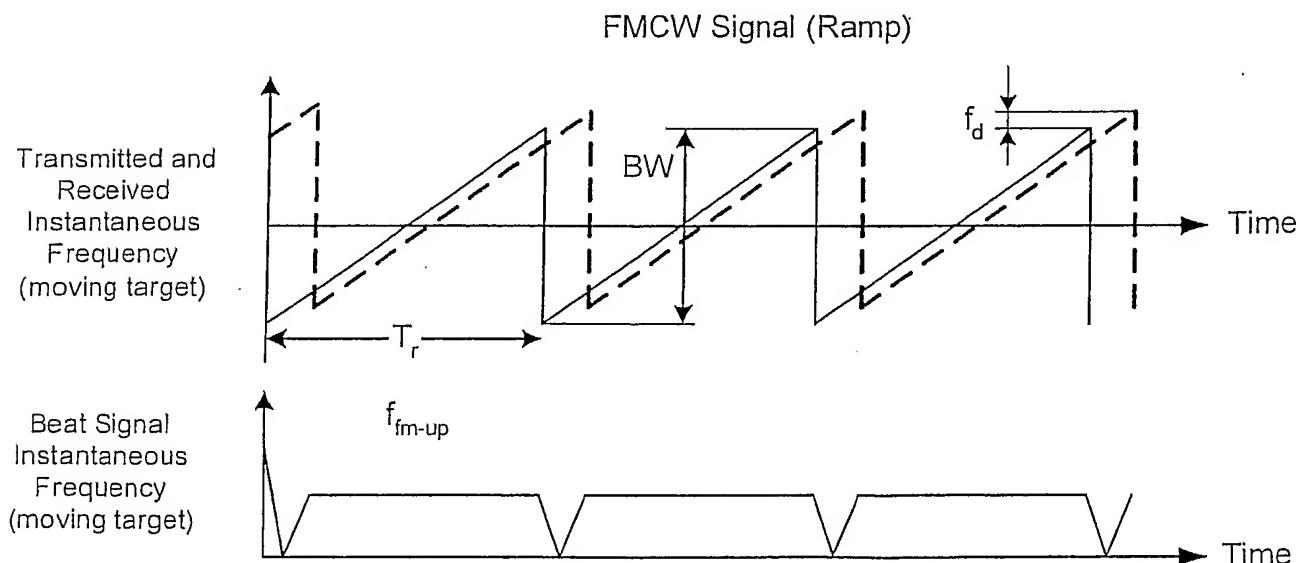


Figure 4b

FMCW Signal (Triangular)

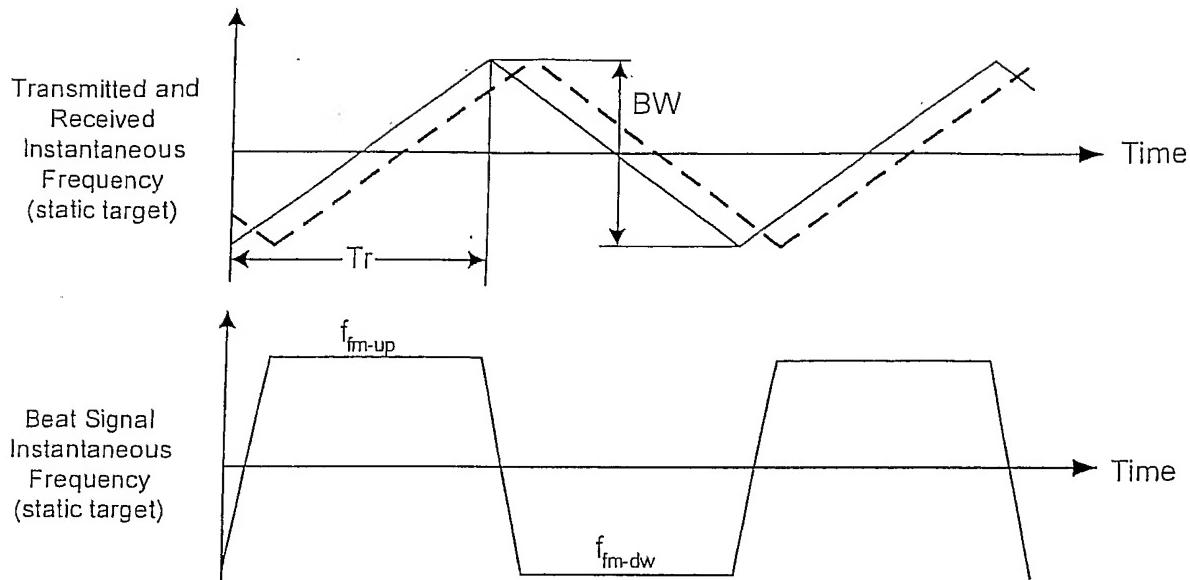


Figure 5a

FMCW Signal (Triangular)

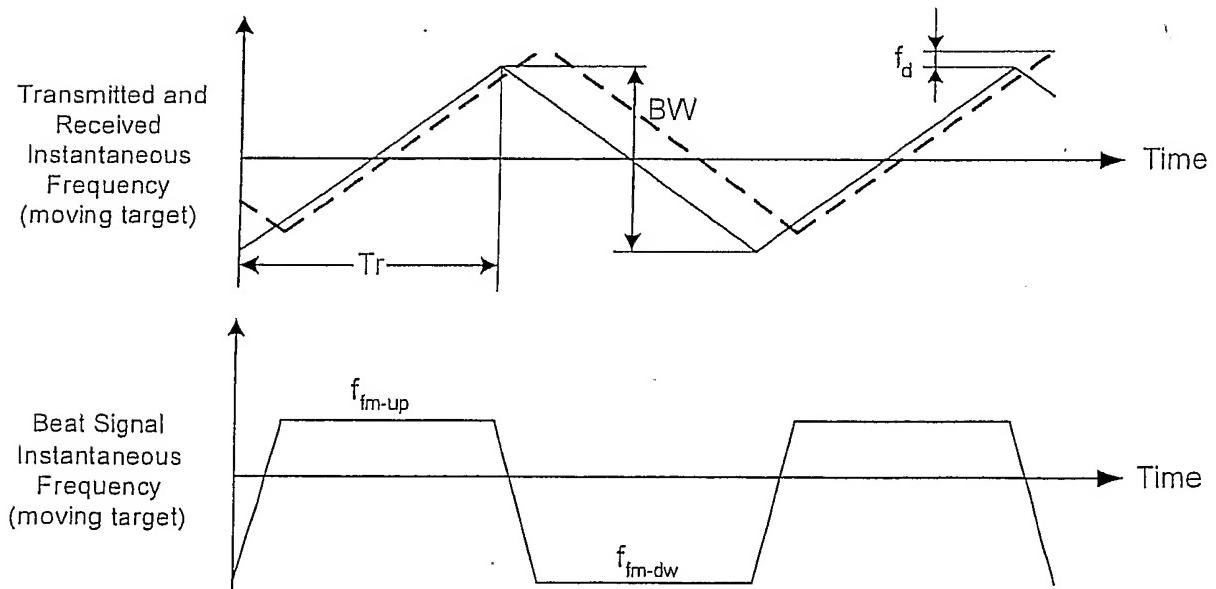


Figure 5b

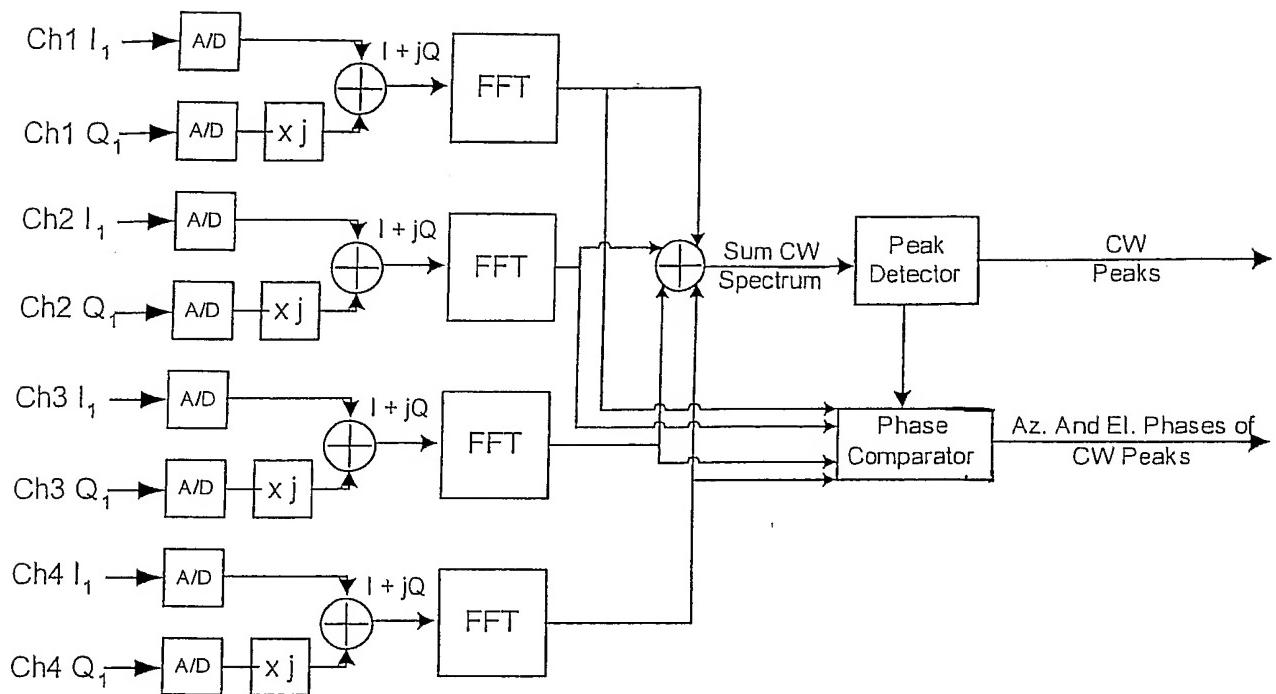


Figure 6a

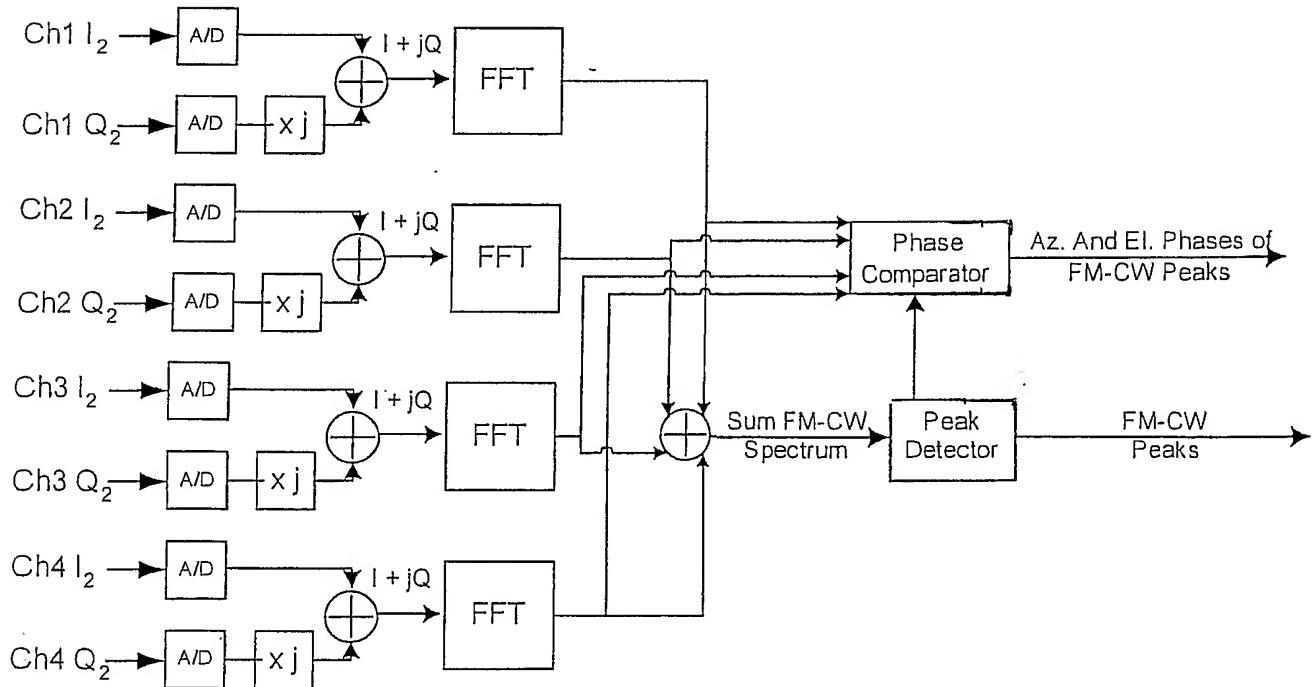


Figure 6b

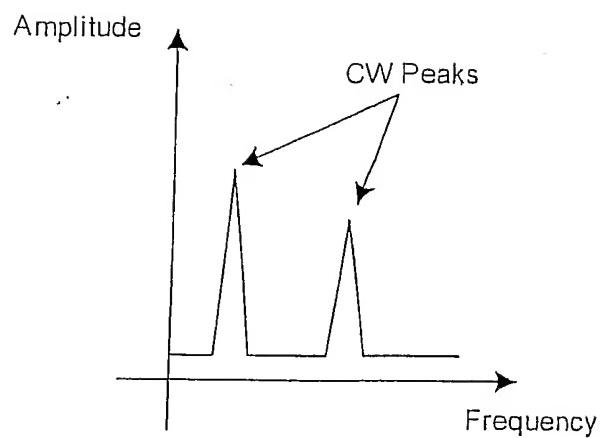


Figure 7a

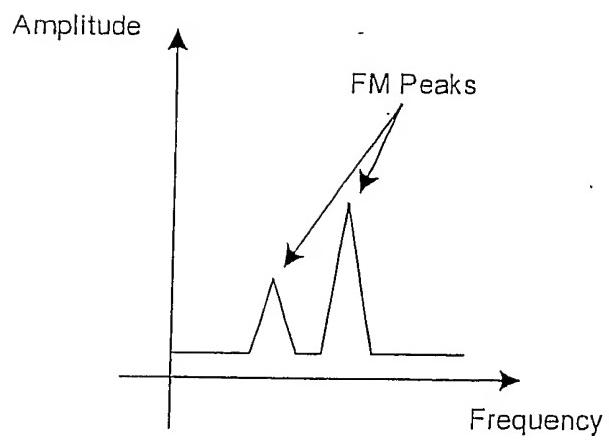


Figure 7b

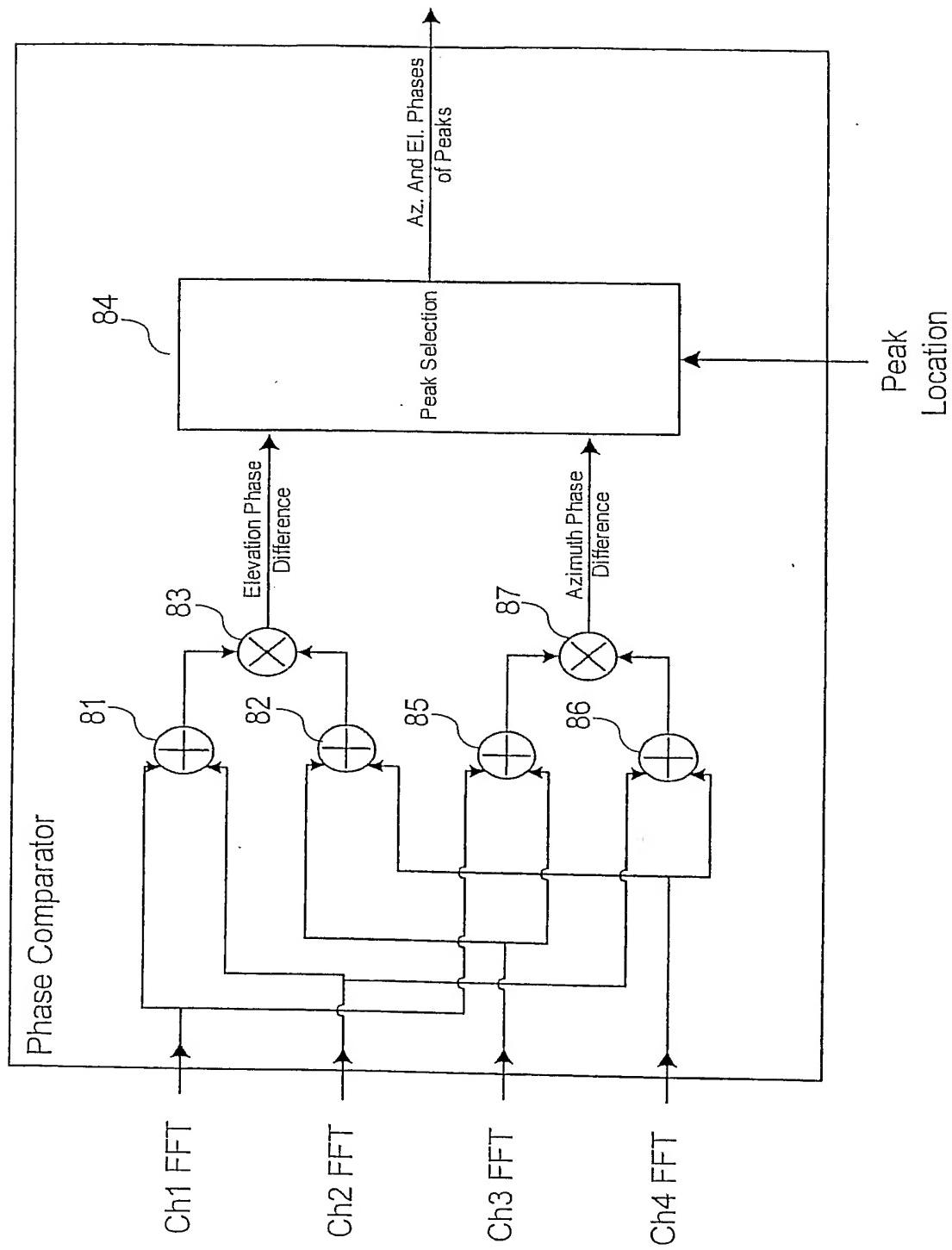


Figure 8

Frequencies of Peaks from FM Up-Ramp

$f_{\text{fm-up } i}$: Frequency of upramp peak i

f_{fm-dw_j} : Frequency of downramp peak j

v_{ij} : Velocity measurement derived from the selected pair of up- and downramp peaks

Figure 9

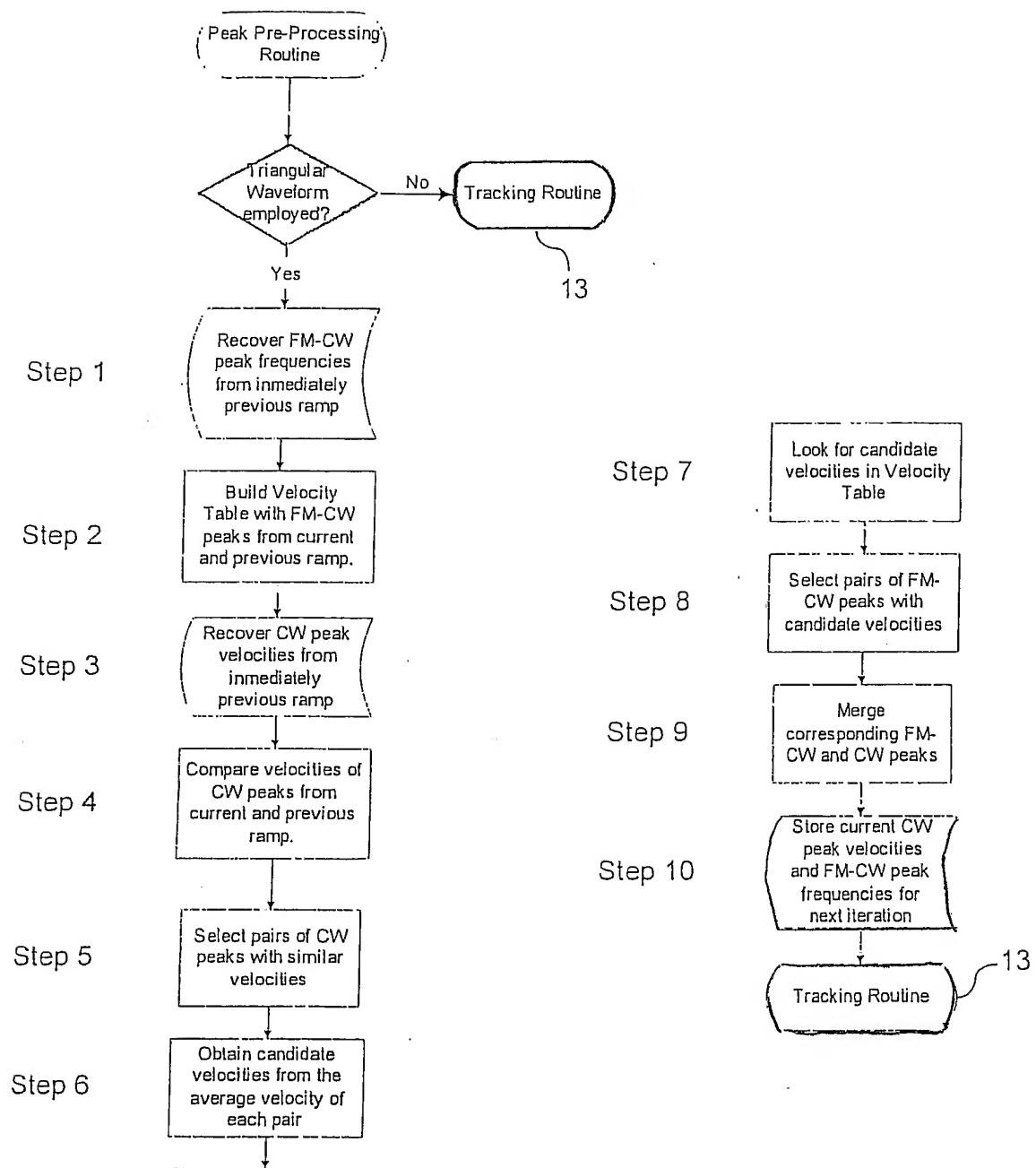


Figure 10

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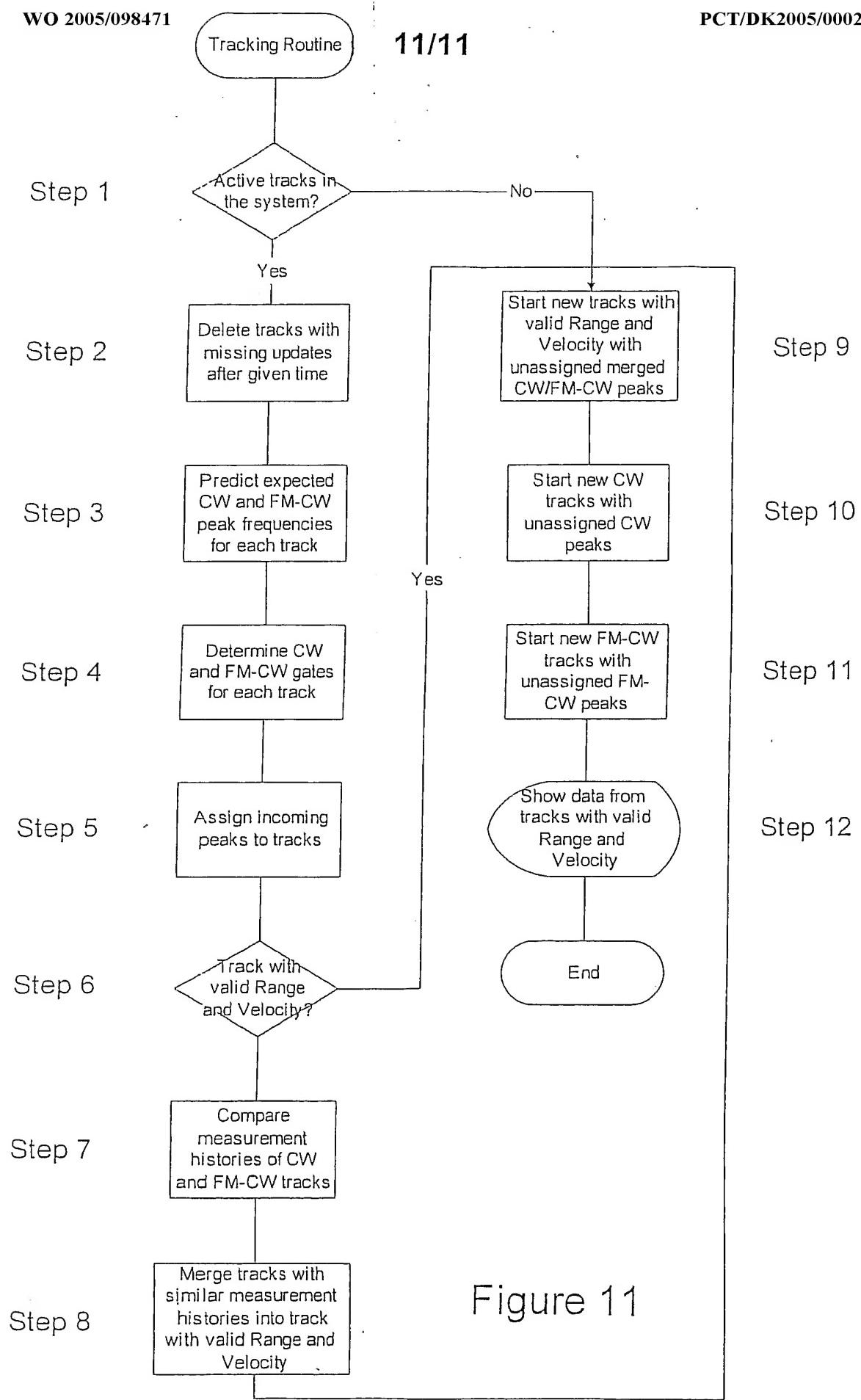


Figure 11